

**METHODS OF FORMING A SUPPORTED
ACTIVATED CATALYST COMPOSITION**

ABSTRACT

5 Processes of forming a supported activated catalyst composition and method of polymerization are disclosed, the process of forming the composition including combining a halogenated aromatic aluminum activator compound with a fluorinated support and a catalyst to form a supported activated catalyst composition. Also disclosed is a supported activated catalyst composition, comprising the reaction product of a fluorinated support, a
10 perfluorophenyl aluminum activator and in one embodiment a metallocene catalyst. In one embodiment, the halogenated aromatic aluminum activator is represented by the formula $R_nAl(ArHal)_{3-n}$, wherein ArHal is a halogenated aryl group, R is a monoanionic ligand, and n is 1 or 2.